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PTO/SB/97 (09-06)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## Certificate of Transmission under 37 CFR 1.8

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Mail Stop: Revocation of Prior and  
Grant of New POA

on January 24, 2007

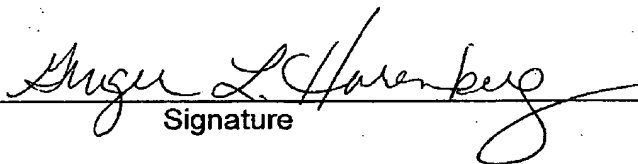
Date

Fax: (571) 273-8300

From: GLENN PATENT GROUP

Tel: (650) 474-8400

Fax: (650) 474-8401



Signature

Ginger L. Harenberg

Typed or printed name of person signing Certificate

650-474-8400

Registration Number, if applicable

Telephone Number

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

Application Serial No.: 10/681,105

Attorney Docket No.: SCH00295D2

TOTAL PAGES (Including cover sheet) - 22 pages

The following documents are enclosed:

- Certificate of Transmission under 35 CFR 1.3 (1 page);
- Power of Attorney and Correspondence Address - signed (1 page); and
- Statement under 37 CFR 3.73(b) - Signed (1 page);
- Chain of Title from Inventors to Current Assignee (2 pages);
- Copies of Previous Recordation Notices Confirming the Chain of Title (17 pages).

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/81 (01-06)

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

|                        |                                    |
|------------------------|------------------------------------|
| Application Number     | 10/681,105                         |
| Filing Date            | October 9, 2003                    |
| First Named Inventor   | Lars Gustaf Liljeryd               |
| Title                  | Source Coding Enhancement Using... |
| Art Unit               | 2626                               |
| Examiner Name          | ALBERTALLI, BRIAN LOUIS            |
| Attorney Docket Number | SCHO0295D2                         |

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number:

22,862

OR

☐ Practitioner(s) named below:

| Name | Registration Number |
|------|---------------------|
|      |                     |
|      |                     |
|      |                     |
|      |                     |

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

☐ Firm or  
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/06)**SIGNATURE of Applicant or Assignee of Record**

|                   |                           |           |             |
|-------------------|---------------------------|-----------|-------------|
| Signature         | <i>Kristofer Kjoeling</i> | Date      | 2007-01-08  |
| Name              | KRISTOFER KJOELING        | Telephone | 468 4429166 |
| Title and Company | HEAD OF RESEARCH STRATEGY |           |             |

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/96 (09-06)

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## STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Lars Gusutaf Liljeryd et al.Application No./Patent No.: 10/681,105 Filed/Issue Date: October 9, 2003Entitled: source Coding Enhancement Using Spectral-Band ReplicationCoding Technologies AB, a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %)

in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Coding Technologies Sweden AB To: Coding Technologies AB  
The document was recorded in the United States Patent and Trademark Office at  
Reel 014999, Frame 0858, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

(NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08)

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Kristofer Kjörling

Signature

KRISTOFER KJÖRLING

Printed or Typed Name

HEAD OF RESEARCH STRATEGY

Title

2007-01-08

Date

146 8 442 9166

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 24 2007

Attorney Docket No.: SCHO0295D2

U.S. Serial No.: 10/681,105

In The United States Patent and Trademark Office

In re application of: LILJERYD, et al.

Docket No.: SCHO0295D2

Serial No.: 10/681,105

Art Unit: 2626

Filed: October 09, 2003

Examiner: Albertalli, Brian

Title: Source Coding Enhancement Using Spectral-Band Replication

Date: January 24, 2007

CHAIN OF TITLE FROM INVENTORS TO CURRENT ASSIGNEE  
FOR PATENT APPLICATION 10/681,105

Commissioner for Patents  
Mail Stop: Rev, POA and New POA  
P.O. Box 1450  
Alexandria, VA. 22313-1450

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Dear Sir:

Below is a listing of the chain of title from the inventors to the Current Assignee:

A) On Recordation date of 04/09/1999:

From: EKSTRAND, PER RUNE ALBIN; HENN, LARS FREDRIK; KJORLING,  
HANS MAGNUS KRISTOFER To: LARS, GUSAF LILJERYDReel 9877 Frame 0965;A Copy of Notice of Recordation for the Parent application (09/230,799)  
dated June 21, 1999 is attached (5 pages).

B) On Recordation date of 07/20/2001:

From: LILJERYD, LARS GUSAF To: CODING TECHNOLOGIES SWEDEN AB

Reel 012003 Frame 0279;A Copy of Notice of Recordation for the Parent application (09/230,799)  
dated September 27, 2001 is attached (6 pages).

C) On Recordation date of 02/23/2004 – A CHANGE OF NAME:

From: CODING TECHNOLOGIES SWEDEN AB To: CODING TECHNOLOGIES AB

Reel 014999 Frame 0858;A Copy of Notice of Recordation for the current application (10/681,105)  
dated August 18, 2004 is attached (6 pages).

JAN 24 2007

Attorney Docket No.: SCHO0295D2

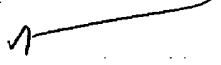
U.S. Serial No.: 10/681,105

The following two documents are enclosed / submitted for Glenn Patent Group to become the Attorney of Record.

- D) POWER of ATTORNEY and CORRESPONDENCE ADDRESS INDICATION  
FORM (PTO/SB/81); Attached (1 page).
- E) STATEMENT UNDER 37 CFR 3.73 (b);  
FORM (PTO/SB/96); Attached (1 page).

Applicant does not believe that the filing of these documents will incur additional fees. However, the Commissioner is authorized to charge any fees that may be due and credit any overpayments to Deposit Account No. 07-1445 (Order No. SCHO0295D2). A copy of this sheet is enclosed for accounting purposes.

Respectfully submitted,

  
Michael A. Glenn  
Reg. No. 30,176

Customer No. 22862

JAN 24 2007

006/022



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JUNE 21, 1999

PTAS

BIRCH, STEWART, KOLASCH, & BIRCH, LLP  
TERRELL C. BIRCH  
P.O. BOX 747  
FALLS CHURCH, VA 22040-0747



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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/09/1999

REEL/FRAME: 9877/0965  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EKSTRAND, PER RUNE ALBIN

DOC DATE: 01/27/1999

ASSIGNOR:

HENN, LARS FREDRIK

DOC DATE: 01/27/1999

ASSIGNOR:

KJORLING, HANS MAGNUS KRISTOFER

DOC DATE: 01/27/1999

ASSIGNEE:

LARS, GUSAF LILJERYD  
VINTERVVAGEN 19  
S-171 34 SOLNA, SWEDEN

SERIAL NUMBER: 09230799

PATENT NUMBER:

FILING DATE: 02/09/1999  
ISSUE DATE:

9877/0965 PAGE 2

MARCUS KIRK, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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APR 9 1999

Atty. Docket No.: 226-103P

Page 1 of 1

## RECORDATION FORM COVER SHEET

04-15-1999

To the Honorable Commissioner of Patents and Trademarks:  
Please record the attached original documents or copy thereof.



101010202

## 1. Name of conveying party(ies):

Per Rune Albin EKSTRAND, Lars Fredrik HENN,  
Hans Magnus Kristofer KJÖRLING

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: Lars Gusaf LILJERYD

Internal Address:

Street Address: Vintervägen 19, S-171 34 Solna

City:

State:

ZIP:

Country: Sweden

Postal Code:

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other:

Execution Date: January 27, 1999

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).

09/230,799

B. Patent No.(s).

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Street Address: P.O. BOX 747

City: FALLS CHURCH State: VA ZIP: 22040-0747

Country: USA

## 6. Total No. of applications/patents involved: one (1)

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number: 02-2448

(Attach triplicate copy of this page  
if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Terrell C. Birch, #19,382

Name of Person Signing/Reg. No.

Signature

April 9, 1999

Date

Total number of pages including cover sheet, attachments, and document: three (3)

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, DC 20231

04/15/1999 DNGUYEN 00000057 09230799

01 FC:581

(40.00 DP)

TCB/pjh

BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP

UNITED STATES PATENT RIGHTS, OF  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTSATTORNEY DOCKET NO.  
226-103P

## ASSIGNMENT

COPY

Application No. 09/230,799

Filed 02/09/1999

Insert Name(s)  
of Inventor(s)

WHEREAS,

EKSTRAND, Per, Rune, Albin

HENN, Lars, Fredrik

KJÖRLING, Hans, Magnus, Kristofer

Insert Title  
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

Source coding enhancement using spectral-band replication

for which an application for Letters Patent of the United States of America has been executed by the undersigned  
(except in the case of a provisional application).Insert Date  
of Signing of  
Application

on January 27, 1999

; and

Insert Name  
of Assignee

WHEREAS, Lars, Gustaf LILJERYD

Insert Address  
of Assignee

of Vintervägen 19, S-171 34 SOLNA, Sweden

CHECK BOX  
IF APPROPRIATEits heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of  
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that  
may be granted therefor in the United States of America and☐ in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

**COPY**

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| Date <u>Jan 27 1999</u> | Name of Inventor <u><i>[Signature]</i></u><br>(signature) <u>Per Rune Albin Ekstrand</u>        |
| Date <u>JAN 27 1999</u> | Name of Inventor <u><i>[Signature]</i></u><br>(signature) <u>Lars, Fredrik Henn</u>             |
| Date <u>Jan 27 1999</u> | Name of Inventor <u><i>[Signature]</i></u><br>(signature) <u>Hans Magnus Kristofer Kjörling</u> |
| Date _____              | Name of Inventor _____<br>(signature)                                                           |
| Date _____              | Name of Inventor _____<br>(signature)                                                           |
| Date _____              | Name of Inventor _____<br>(signature)                                                           |



JAN 24 2007

UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 27, 2001

PTAS  
BIRCH, STEWART, KOLASCH & BIRCH, LLP  
DONALD J. DALEY  
P.O. BOX 747  
FALLS CHURCH, VA 22040-0747



\*101789717A\*

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/20/2001

REEL/FRAME: 012003/0279  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LILJERYD, LARS GUSTAF

DOC DATE: 07/17/2001

ASSIGNEE:

CODING TECHNOLOGIES SWEDEN AB  
SVEAVAGAN 119  
SE-113 49 STOCKHOLM, SWEDEN

SERIAL NUMBER: 09230799  
PATENT NUMBER:

FILING DATE: 02/09/1999  
ISSUE DATE:

JEFFREY OLSEN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Application No. 09/230,799  
Attorney Docket No.: 0226-0103P

 **COPY**

ASSIGNMENT

WHEREAS, Lars Gustaf LILJERYD, an individual, having an address at Vintervägen 19, S-171 34 Solna, Sweden, is the owner by previous assignment, dated January 27, 1999, of the entire undivided right, title and interest of the inventors Per Rune Albin EKSTRAND, Lars Fredrik HENN and Hans Magnus Kristofer KJÖRLING, in and to an invention for new and useful improvements in or relating to SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION for which an application for Letters Patent in the United States was filed on February 9, 1999 and assigned Application No. 09/230,799 and is the owner of the right, title and interest in and to said application in the United States by said previous assignment;

WHEREAS, CODING TECHNOLOGIES SWEDEN AB, a corporation having an office at Sveavägen 119, SE-113 49 Stockholm, Sweden, is desirous of acquiring the entire right, title and interest in and to the said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the improvements therein contained;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) lawful money of the United States and other valuable considerations, to me in hand paid, the receipt of and sufficiency whereof are hereby acknowledged, and said Lars Gustaf LILJERYD has sold, assigned and transferred and does hereby sell, assign and transfer unto the said CODING TECHNOLOGIES SWEDEN AB, its successors and assigns, its entire undivided right, title and interest in and to the said application and the invention therein

Application No. 09/230,799  
Attorney Docket No.: 0226-0103P

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contained, including the right to apply for any Letters Patent in the United States of America on said invention and including the right to claim the priority of the date of filing in the United States and any Letters Patent that may issue thereon, or therefor, in the United States and all reissues, extensions, renewals, divisions and continuations thereof, to the full end of the term or terms for which said Letters Patent may be issued, to be held and enjoyed by the said **CODING TECHNOLOGIES SWEDEN AB**, its successors and assigns the same as it would have been held and enjoyed by **Lars Gustaf LILJERYD**, if this assignment and sale had not been made.

**AND**, **Lars Gustaf LILJERYD** hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all such Letters Patents to the said **CODING TECHNOLOGIES SWEDEN AB**, in accordance with this instrument of assignment.

**Lars Gustaf LILJERYD**, hereby represents and warrants that there are no rights or interests outstanding inconsistent with the rights and interest granted herein and that **Lars Gustaf LILJERYD** will not execute any instrument or grant or transfer any rights or interests inconsistent therewith, and **Lars Gustaf LILJERYD** binds himself and his heirs, executors, administrators, employees and legal representatives, as the case may be, to execute and deliver to the said **CODING TECHNOLOGIES SWEDEN AB**, its successors and assigns, any further documents or instruments and do any and all further acts that may be deemed necessary by the said **CODING TECHNOLOGIES SWEDEN AB**, its successors and assigns to file applications for the said improvements and invention in any country where it may elect to file such applications, and that may be necessary to vest in the said **CODING TECHNOLOGIES SWEDEN AB**, its successors and assigns, the title herein conveyed, or intended so to be, and to

Application No. 09/230,799  
Attorney Docket No.: 0226-0103P

 **COPY**

enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

AND, Lars Gustaf LILJERYD further covenants and agrees, in consideration of the premises, that he, his executors and administrators will, at any time upon request, communicate to the said **CODING TECHNOLOGIES SWEDEN AB**, its successors and assigns, any facts relating to the said invention and improvements and the history thereof, known to it or its successors and assigns, and that it will testify as to the same in any interference or other proceeding when requested to do so by the said **CODING TECHNOLOGIES SWEDEN AB**, his successors and assigns.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Application No. 09/230,799  
Attorney Docket No.: 0226-0103P

 **COPY**

IN TESTIMONY WHEREOF, I, Lars Gustaf LILJERYD, have hereunto set my  
hands and seal this 17 day of APRIL, 2001.

By: 

Lars Gustaf LILJERYD

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07-27-2001

Atty. Docket No.: 0226-0103P

Page 1 of 1

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Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

LARS GUSTAF, Lars Gustaf

7-2001

Additional name(s) of conveying party(ies) attached?

☐ YES ☒ NO

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other:

Execution Date: April 17, 2001

2. Name and address of receiving party(ies)

Name: CODING TECHNOLOGIES SWEDEN AB

Internal Address:

Street Address: Sveavägen 119, SE-113 49

City: Stockholm

State:

ZIP:

Country: SWEDEN

Postal Code:

Additional name(s) & address(es) attached? ☐ YES ☒ NO

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).

09/230,799

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP

Street Address: P.O. BOX 747

City: FALLS CHURCH State: VA ZIP: 22040-0747

Country: USA

6. Total No. of applications/patents involved: ONE (1)

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Enclosed☒ Authorized to be charged to deposit account, if no fee attached.

8. Deposit account number: 02-2448

(Attach triplicate copy of this page if paying by deposit account)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Donald J. Daley (Reg. No. 34,313)

Name of Person Signing/Reg. No.

Signature

July 20, 2001

Date

Total number of pages including cover sheet, attachments, and document: FIVE (5)

07/26/2001 6TON11 00000121 09230799

01 FC:581

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(Rev. 06/25/01)

JAN 24 2007 11:11:33



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**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 18, 2004

PTAS

BIRCH, STEWART, KOLASCH & BIRCH, LLP  
TERRELL C. BIRCH  
P.O. BOX 747  
FALLS CHURCH, VA 22040-0747



\*102678235A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/23/2004

REEL/FRAME: 014999/0858  
NUMBER OF PAGES: 4

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 4441-0113M

ASSIGNOR:

CODING TECHNOLOGIES SWEDEN AB

DOC DATE: 01/08/2003

ASSIGNEE:

CODING TECHNOLOGIES AB  
DOBELNGATAN 64  
STOCKHOLM, SWEDEN 113 52

SERIAL NUMBER: 09647057

FILING DATE: 12/20/2000

PATENT NUMBER: 6708145

ISSUE DATE: 03/16/2004

TITLE: ENHANCING PERCEPTUAL PERFORMANCE OF SBR AND RELATED HFR CODING METHODS BY ADAPTIVE NOISE-FLOOR ADDITION AND NOISE SUBSTITUTION LIMITING

014999/0858 PAGE 2

 COPY

SERIAL NUMBER: 09987657 FILING DATE: 11/15/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: ENHANCING THE PERFORMANCE OF CODING SYSTEMS THAT USE HIGH FREQUENCY  
RECONSTRUCTION METHODS

SERIAL NUMBER: 09230799 FILING DATE: 02/09/1999  
\* PATENT NUMBER: 6680972 ISSUE DATE: 01/20/2004  
TITLE: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

SERIAL NUMBER: 10682030 FILING DATE: 10/10/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

SERIAL NUMBER: 09763128 FILING DATE: 05/15/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: EFFICIENT SPECTRAL ENVELOPE CODING USING VARIABLE TIME/FREQUENCY  
RESOLUTION AND TIME/FREQUENCY SWITCHING

SERIAL NUMBER: 10022526 FILING DATE: 12/20/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: ENHANCING SOURCE CODING SYSTEMS BY ADAPTIVE TRANSPOSITION

SERIAL NUMBER: 10680224 FILING DATE: 10/08/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

SERIAL NUMBER: 09987475 FILING DATE: 11/14/2001  
PATENT NUMBER: ISSUE DATE:  
TITLE: ENHANCING PERCEPTUAL PERFORMANCE OF HIGH FREQUENCY RECONSTRUCTION  
CODING METHODS BY ADAPTIVE FILTERING

SERIAL NUMBER: 10112869 FILING DATE: 04/02/2002  
PATENT NUMBER: ISSUE DATE:  
TITLE: ~~ALIASING REDUCTION USING COMPLEX-EXPONENTIAL MODULATED FILTERBANKS~~

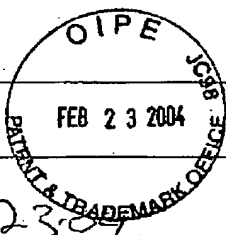
SERIAL NUMBER: 10681105 FILING DATE: 10/09/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

MARCUS KIRK, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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Atty. Docket No.: 4441-0113M

Page 1 of 1



02-26-2004

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## 1. Name of conveying party(ies):

**CODING TECHNOLOGIES SWEDEN AB**  
**DÖBELNSGATAN 64**  
**113 52 STOCKHOLM**  
**SWEDEN**

Additional name(s) of conveying party(ies) attached?

☐ YES ☒ NO

## 3. Nature of conveyance:

☐ Assignment☐ Merger☐ Security Agreement☒ Change of Name☐ Other:

Execution Date: January 8, 2003

## 2. Name and address of receiving party(ies)

Name: **CODING TECHNOLOGIES AB**

Internal Address:

Street Address: **DÖBELNSGATAN 64**City: **STOCKHOLM** State: ZIP:Country: **SWEDEN**Postal Code: **113 52**Additional name(s) & address(es) attached? ☐ YES ☒ NO

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

## A. Patent Application No(s).

09/647,057 09/763,128 09/987,475

09/987,657 10/022,526 10/112,869

09/230,799 10/680,224 10/681,105

10/682,030

## B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **BIRCH, STEWART, KOLASCH & BIRCH, LLP**Street Address: **P.O. BOX 747**City: **FALLS CHURCH** State: **VA** ZIP: **22040-0747**Country: **USA**6. Total No. of applications/patents involved: **ten (10)**7. Total fee (37 C.F.R. § 3.41): **\$400.00**☒ Enclosed☒ Authorized to be charged to deposit account, if no fee attached.8. Deposit account number: **02-2448**

(Attach triplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

Terrell C. Birch, #19,382

Name of Person Signing/Reg. No.

Signature

February 23, 2004

Date

Total number of pages including cover sheet, attachments, and document: **four (4)**

02/25/2004 LMUELLER 00000126 09647057

01 FC:8021

400.00 DP

TCB/pjh

(Rev. 02/13/2004)

2171013

**PRV** Bolag  
PATENT- OCH REGISTRERINGSVERKET

Page 1

CERTIFICATE OF REGISTRATION

COPY

## SWEDEN

Registration number: 556542-4222  
Date of registration: 1997-05-20  
Company name: Coding Technologies AB  
Address: Döbelnsgatan 64  
113 52 STOCKHOLM  
Registered office: Stockholm  
Share capital: SEK 168.600



## BOARD OF DIRECTORS:

501124-2251 Csillag, Stefan, Rörstrandsgatan 46, 2 tr.,  
113 33 STOCKHOLM  
650626 Dietz, Martin Peter, (E), Praterstrasse 14, 90429 NÜRNBERG,  
TYSKLAND  
460524 Gerhäuser, Heinz Ludwig, (E), Säugendorf 17, 913 44,  
WAISCHENFELD, TYSKLAND  
540925-2730 Johansson, Per-Anders Karl, (O), Lärkgatan 4,  
374 34 KARLSHAMN  
510226-1095 Liljeryd, Lars Gustaf, Vintervägen 19, 169 32 SOLNA  
470507-0052 Littorin, Björn, Jaktstigen 1, 181 46 LIDINGÖ  
550426 Michaelsen, Ernst, (E), Ingeborgvej 17, DK-2920,  
CHARLOTTENLUND, DANMARK  
560722-3392 Petersson, Kenth Ingemar, Heleneborgsgatan 20,  
117 32 STOCKHOLM

## DEPUTY MEMBERS OF THE BOARD:

640413-9351 Franzé, Francesco Charles, (U), Västmanagatan 44,  
113 25 STOCKHOLM  
631003-1999 Holmertz, Per Olov Gottfrid, Döbelnsgatan 48,  
113 52 STOCKHOLM

## MANAGING DIRECTOR:

650626 Dietz, Martin Peter, (E), Praterstrasse 14, 90429 NÜRNBERG,  
TYSKLAND

## DEPUTY MANAGING DIRECTOR:

510226-1095 Liljeryd, Lars Gustaf, Vintervägen 19, 169 32 SOLNA  
640207-3974 Bengtsson Bourn, Per Rune Urban, Vikbyvägen 14,  
181 43 LIDINGÖ  
691007-Ehret, Andreas, (E), Hochstrasse 27, 90429, NÜRNBERG,  
TYSKLAND  
680521 Kunz, Oliver, (E), Roetenweg 1, 96145, HEILGERSDORF,  
TYSKLAND  
621211 Meltzer, Stefan Guy, (E), Heinrich-Kirchner Str. 30, 91056,  
CONTD.

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**PRV** Bolag  
PATENT- OCH REGISTRERINGSVERKET

Page 2

CERTIFICATE OF REGISTRATION

## SWEDEN

Registration number: 556542-4222  
Date of registration: 1997-05-20  
Company name: Coding Technologies AB  
Address: Döbelnsgatan 64  
113 52 STOCKHOLM  
Registered office: Stockholm  
Share capital: SEK 168.600

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## ERLANGEN; TYSKLAND

COMPANY AUDITORS:  
580324-2956 Lundh, Torbjörn Alf Mikael, Ernst & Young AB, Box 753,  
391 27 KALMAR

## SIGNATORY POWER:

In addition to the board of directors,  
any one of

Dietz, Martin Peter  
Bengtsson Bourn, Per Rune Urban  
in combination with

Johansson, Per Anders Karl  
or any one of

Csillag, Stefan  
Gerhäuser, Heinz Ludwig  
Liljeryd, Lars Gustaf  
Littorin, Björn  
Michaelson, Ernst  
Petersson, Kenth Ingemar

in combination with  
Johansson, Per Anders Karl

are entitled to sign on behalf of the company.

Furthermore, the Managing Director, in his normal business  
activities, is also entitled to sign on behalf of the company.

## FINANCIAL YEAR:

Registered financial year: 0101-1231  
Latest annual report submitted covers financial  
period 010101-011231

CONTD.

2171013

**PRV** Bolag  
PATENT- OCH REGISTRERINGSVERKET

Page 3

CERTIFICATE OF REGISTRATION

## SWEDEN

Registration number: 556542-4222  
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Company name: Coding Technologies AB  
Address: Döbelnsgatan 64  
113 52 STOCKHOLM  
Registered office: Stockholm  
Share capital: SEK 168.600

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DATE OF REGISTRATION OF CURRENT AND PREVIOUS COMPANY NAMES:  
2003-01-08 Coding Technologies AB  
1997-09-17 Coding Technologies Sweden AB  
1997-05-20 Aktiebolaget Grundstenen 73187

SUNDSVALL 2003-03-04  
Ex officio

  
ANNA STENQVIST



- (O) = chairman of the board  
(A) = employee representative  
(U) = person resident outside EEA  
(E) = person resident outside Sweden but within EEA